

Treating Tobacco in Smokers with Mental Illness

Judith J. Prochaska, PhD, MPH UCSF Department of Psychiatry



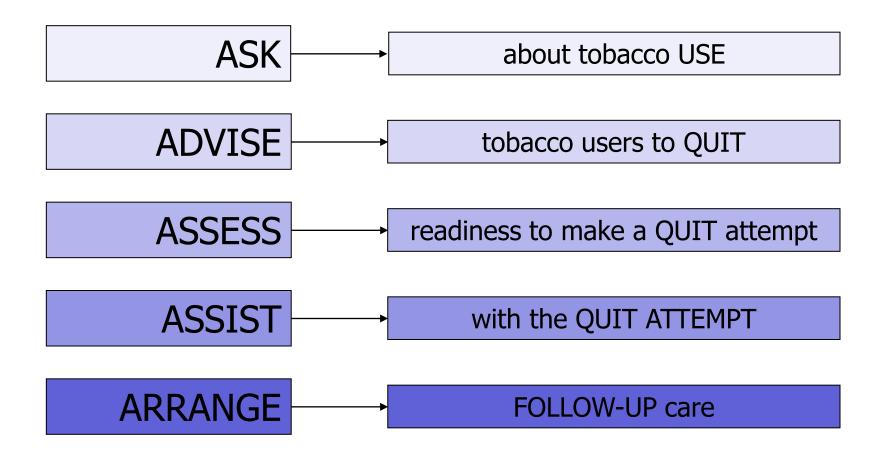
RECOMMENDATIONS to TREAT TOBACCO USE in PSYCHIATRY

In terms of lives saved, quality of life, and cost-efficacy, treating smoking is considered the most important activity a clinician can do.

-- John Hughes, MD Professor of Psychiatry University of Vermont



NATIONAL CANCER INSTITUTE'S FIVE A's for TREATING TOBACCO





The FIVE A's: ASK

□ Never□ Former☑ Current

- ASK about tobacco use
 - "Do you ever smoke or use any type of tobacco?"
 - "I take time to ask all of my clients about tobacco use—because it's important."

Tobacco use & MH status should be included in the intake assessment and documented for every client.



The FIVE A's: **ADVISE**

- ADVISE tobacco users to quit (clear, strong, personalized, sensitive)
 - "Quitting smoking is the most important thing you can do to protect your health now and in the future."
 - "I have training to help my clients quit, and when you are ready, I can work with you to design a specialized treatment plan."

52% of psychiatric patients who smoke report never having been advised to quit by a mental healthcare provider (Prochaska et al., 2005)



MENTAL HEALTH & ADDICTION TREATMENT PROVIDERS

- Critical to get them on board with treating tobacco:
 - Know the client well
 - May have discouraged quit attempts in the past
 - Should be aware of changes in tobacco status that may impact psychiatric medication levels
 - Able to identify and address any changes in psychiatric symptoms during the quit attempt



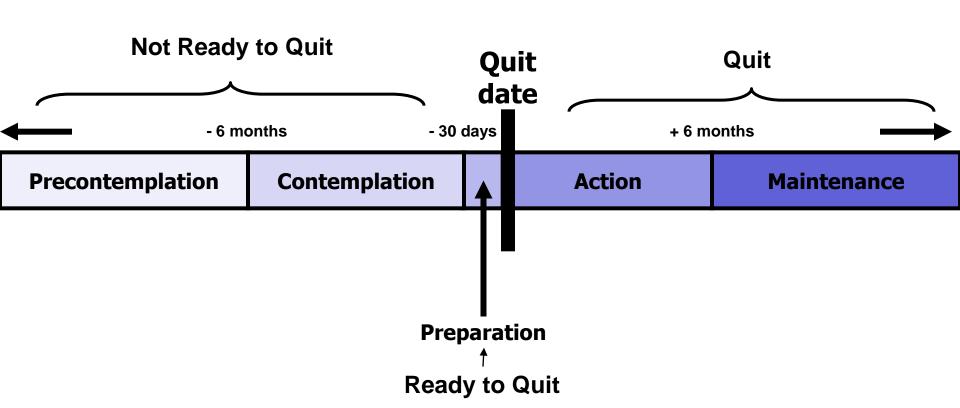
YOUR ROLE

- Listen, share resources, work collaboratively with treatment providers
- Emphasize and respect client confidentiality
- Build upon client's strengths and recovery "tools"



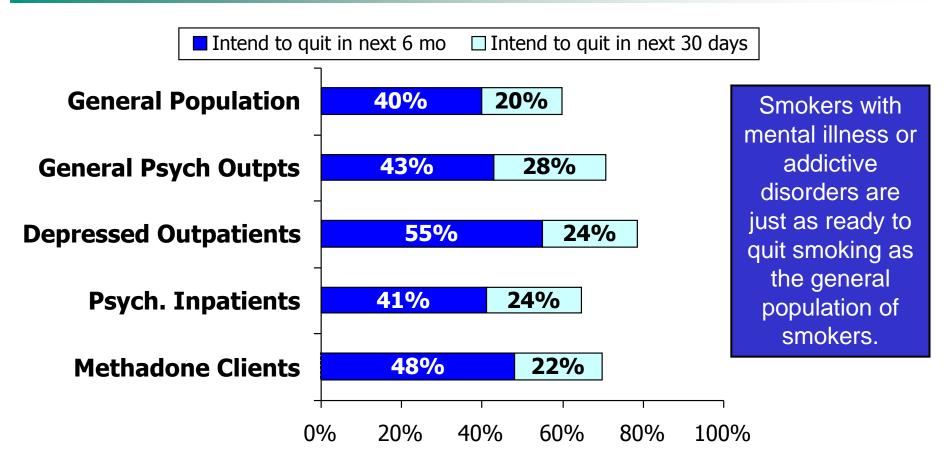
The FIVE A's: ASSESS

ASSESS readiness to make a quit attempt





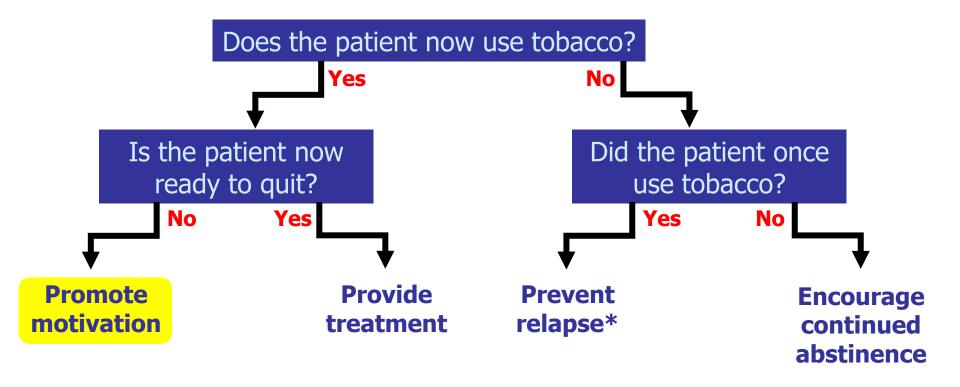
READINESS to QUIT in SPECIAL POPULATIONS*



* No relationship between psychiatric symptom severity and readiness to quit



ASSIST: TAILOR TREATMENT to PATIENTS' READINESS to QUIT



^{*}Relapse prevention interventions not necessary if patient has not used tobacco for many years and is not at risk for re-initiation.



NOT READY to QUIT: Counseling Strategies

DO

- Strongly advise to quit
- Provide information
- Ask noninvasive questions;
 identify reasons for tobacco use
- Raise awareness of health consequences/concerns
- Demonstrate empathy, foster communication
- Leave decision up to patient

DON'T

- Persuade
- "Cheerlead"
- Tell patient how bad tobacco is, in a judgmental manner
 - Provide a treatment plan



NOT READY to QUIT: Counseling Strategies (cont'd)

Consider asking:

"On a scale from 1 to 10, how important is it to you to quit smoking?"

Not at all important

Extremely important

"On a scale from 1 to 10, how confident are you that you could quit smoking right now?"

10

Not at all confident

Extremely confident



NOT READY to QUIT: Counseling Strategies (cont'd)

The 5 R's—Methods for enhancing motivation:

- Relevance
- Risks
- Rewards
- Roadblocks
- Repetition

Tailored, motivational messages



RAISING AWARENESS: TOBACCO USE MOOD LOG

- Use the Mood Log to raise patients' awareness of their tobacco use
- For each day, patient should record # of cigarettes smoked, # of pleasant activities, and provide a mood rating.
- Review log sheets with patient to identify relationship between smoking, activities / isolation, and mood



Take Control of Your Health

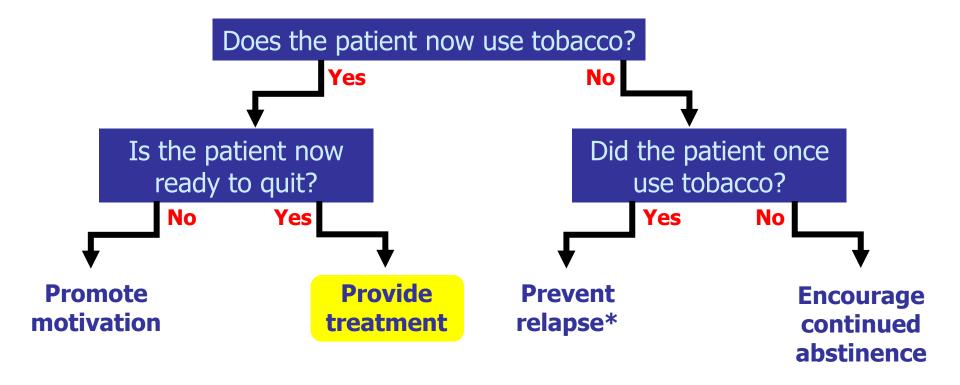
A New Method to Stop Smoking

Treatment Research Center University of California, San Francisco

Is patient's tobacco use associated with isolation and poorer mood?



ASSIST: TAILOR TREATMENT to PATIENTS' READINESS to QUIT



*Relapse prevention interventions not necessary if patient has not used tobacco for many years and is not at risk for re-initiation.



TOBACCO DEPENDENCE: for Change A 2-PART PROBLEM

Tobacco Dependence

Physiological



Behavioral

The addiction to nicotine



Medications for cessation

The habit of using tobacco



Behavior change program

Treatment should address the physiological and the behavioral aspects of dependence.



PHARMACOLOGIC METHODS: FIRST-LINE THERAPIES

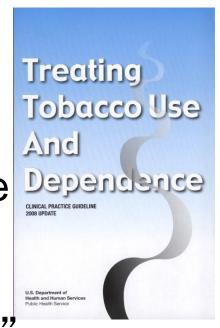
Three general classes of FDA-approved drugs for smoking cessation:

- Nicotine replacement therapy (NRT)
 - Nicotine gum, patch, lozenge, nasal spray, inhaler
- Psychotropics
 - Sustained-release bupropion
- Partial nicotinic receptor agonist
 - Varenicline



PHARMACOTHERAPY

"Clinicians should encourage all patients attempting to quit to use effective medications for tobacco dependence treatment, except where contraindicated or for specific populations* for which there is insufficient evidence of effectiveness."



* Includes pregnant women, smokeless tobacco users, light smokers, and adolescents.

Medications significantly improve success rates.



US TOBACCO TREATMENT CLINICAL PRACTICE GUIDELINES

- Literature base of more than 8,700 research articles
- < 30 randomized clinical trials treating tobacco dependence in smokers with mental illness or addictive disorders



TREATING TOBACCO DEPENDENCE in DEPRESSED SMOKERS

322 depressed smokers recruited from four outpatient psychiatry clinics

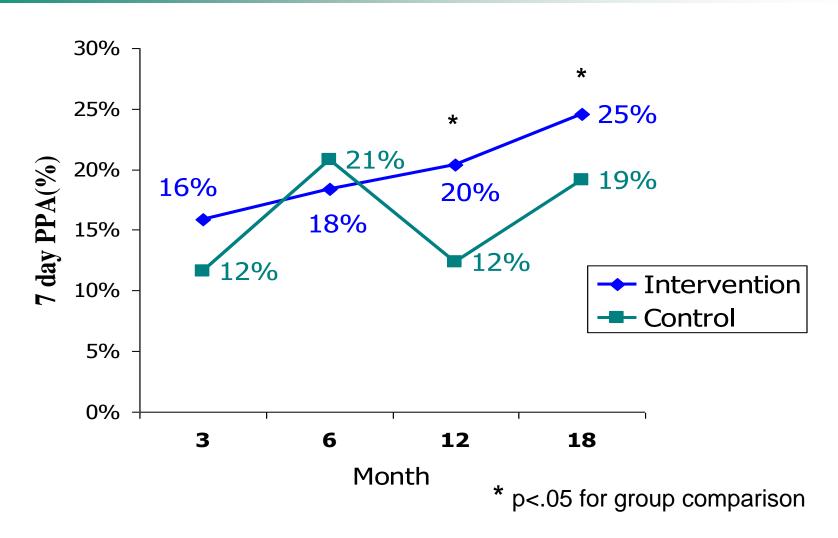
Stepped Care Intervention

Stage-based expert system counseling
Nicotine patch
6 session individual counseling

Brief Contact Control



ABSTINENCE RATES by TREATMENT CONDITION





DEPRESSION SEVERITY & TOBACCO TREATMENT OUTCOME

NO RELATIONSHIP

- Depression severity, as measured by the Beck Depression Inventory-II, was unrelated to participants' likelihood of quitting smoking
- Among intervention participants, depression severity was unrelated to their likelihood of accepting cessation counseling and nicotine patch

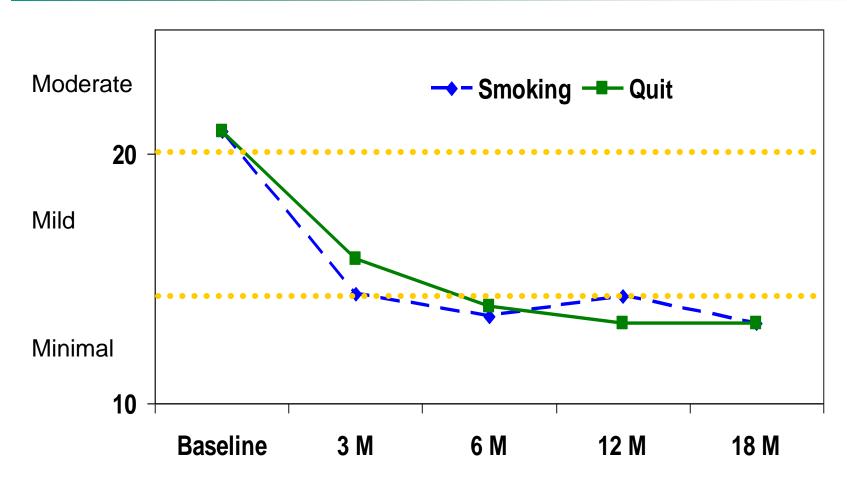


MENTAL HEALTH OUTCOMES: DEPRESSED SMOKERS TREATED for TOBACCO

- Among depressed patients who quit smoking:
 - No increase in suicidality
 - Quit: 0% vs Smoking: 1-4%
 - No increase in psych hospitalization
 - Quit: 0-1% vs. Smoking: 2-3%
 - Comparable improvement in % of days with emotional problems
 - No difference in use of marijuana, stimulants or opiates
 - Less alcohol use among those who quit smoking



BDI TOTAL SCORE





TREATING DEPRESSED SMOKERS

- Stage-based tobacco treatment with CBT and NRT significant effects at 12 and 18 months
- No evidence of worsened psychiatric symptoms associated with quitting smoking
- Smoking can be treated concurrent with depression without adverse effects to mental health functioning

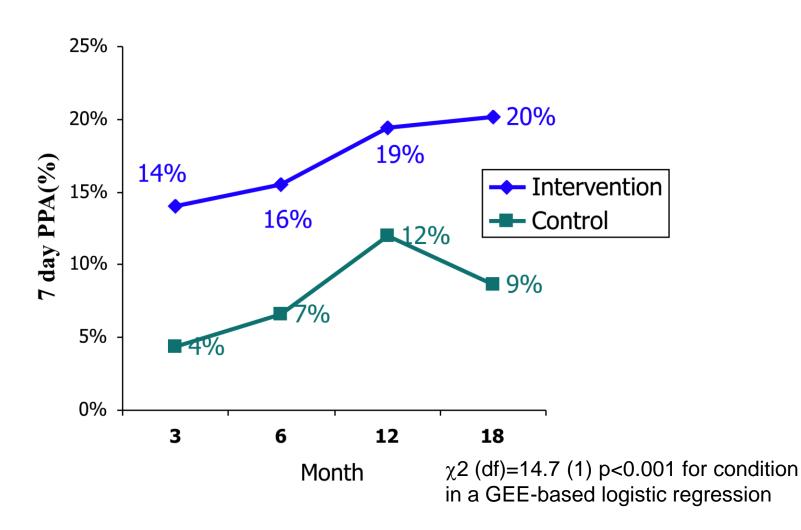


TREATING TOBACCO USE in INPATIENT PSYCHIATRY

- 100% smoke-free unit
- Stage-tailored expert system, stage-tailored manual, 10 wk nicotine patch vs. Usual care
- 224 patients enrolled
- Full range of psychiatric diagnoses
- 79% recruitment rate
- 82% retention at 18 months



ABSTINENCE RATES by TREATMENT CONDITION





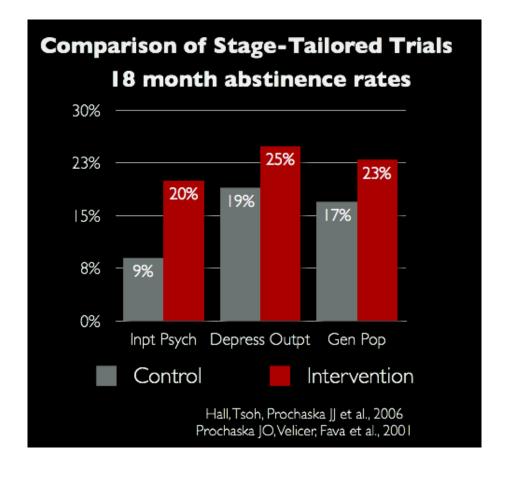
IMPACT on MENTAL HEALTH SERVICE UTILIZATION

- 46% psychiatric re-hospitalization rate
 - CA data: 44% psychiatric re-hospitalization rate
- 232 Re-hospitalizations:
 - Unrelated to quit status
 - Related to African American race, psychosis symptoms at baseline, lower income, prior psych hospitalizations & treatment condition
 - Significantly greater for control (138) than treatment (94) participants, p=.032



TREATING DEPRESSED OUTPATIENTS & PSYCHIATRIC INPATIENTS

 The 18-mo quit rates and pattern of increasing abstinence rates over time are consistent with previous evaluations of staged-care interventions in the general population





URBAN PUBLIC HOSPITAL: INPATIENT PSYCHIATRY

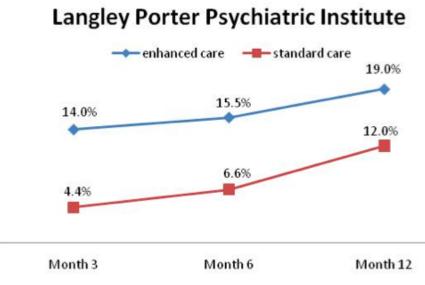
	LPPI	SFGH
Ν	224	100
Recruitment Rate	79%	71%
Age in years	40 (14)	40 (11)
Female	40%	35%
Ethnicity White African American Hispanic Asian American Multiethnic/other	63% 9% 5% 7% 16%	44% 27% 9% 11% 9%
Education in years	14 (3)	13 (3)
Income <\$20,000	60%	81%
Homeless	5%	39%
Private/self-pay	53%	1%



CESSATION OUTCOMES

CO-confirmed 7 day PPA overtime by conditions







TREATING SMOKERS with SCHIZOPHRENIA

 Treatments tailored for smokers with schizophrenia no more effective than standard programs (George et al., 2000)

 Atypical antipsychotics associated with greater cessation than typical antipsychotics



2 META-ANALYSES of BUPROPRION FOR QUITTING SMOKING in PERSONS with SCHIZOPHRENIA

- \bullet 6 RCTs, N = 260 total (19 59)
- EOT: RR = 2.57 (95% CI 1.35, 4.88)
- 6 mo FU: RR = 2.78 (95% CI 1.02, 7.58)
- Gen Pop: RR = 1.69 (95% CI 1.53, 1.85)

Tsoi et al. (2010) Cochrane Lib; Banham & Gilbody (2010) Addiction

Bupropion for quitting smoking found to be well tolerated in patients with schizophrenia who are stabilized on an adequate antipsychotic regime



VARENICLINE USE with INDIVIDUALS with SCHIZOPHRENIA

- Evins et al. (2008): Open-label case series reported 13 of 19 patients (68%) with schizophrenia quit smoking at the end of treatment
- Two RCTs in process of varenicline use in individuals with schizophrenia (Pfizer & NIDA)







- On July 1, 2009, varenicline and bupropion received Boxed Warnings concerning the risk of serious neuropsychiatric symptoms:
 - Patients should be advised to stop taking varenicline or bupropion and to contact a health-care provider immediately if they experience agitation, depressed mood, and any changes in behavior that are not typical of nicotine withdrawal, or if they experience suicidal thoughts or behavior.



TOBACCO CESSATION & SCHIZOPHRENIA SYMPTOMS

- Tobacco abstinence (1-wk) <u>not</u> associated with worsening of:
 - attention, verbal learning/memory, working memory, or executive function/inhibition, or clinical symptoms of schizophrenia (Evins et al., 2005)
- Bupropion: decreased the negative symptoms of schizophrenia (Evins et al. 2005, George et al. 2002)
- Varenicline: no worsening of clinical symptoms and a trend toward improved cognitive function (Evins et al., 2009)



IN the ABSENCE of TIME or EXPERTISE: REFER

- REFER patients to other resources:
 - A doctor, nurse, pharmacist, or other clinician, for additional counseling
 - Local program
 - The support program provided free with each smoking cessation medication
 - Web sites like <u>smokefree.gov</u> or <u>quitnet.org</u>
 - The toll-free national quit line: 1-800-QUIT-NOW



QUITLINES

- Referring patients to a toll-free quit line is simple and easily integrated into routine patient care
- CA Quitline: nearly 1 in 4 callers met criteria for current major depression
- Those with depression much less likely to be quit 2-months later (18.5%) than callers without depression (28.4%)

Hebert et al. (2011) Am J Prev Med



Take Control

Call. It's free. It works.



INTEGRATING TOBACCO TREATMENT within PTSD SERVICES

- RCT with 66 clients from VA Medical Center
- Integrated care (IC)
 - Manualized treatment delivered by PTSD clinician and case manager (3-hr training)
 - Behavioral counseling once a week for 5 weeks + 1 follow-up
 - Bupropion, nicotine patch, gum, spray
- Usual care (UC): referral to VA smoking cessation clinic



INTEGRATING TOBACCO TREATMENT within PTSD SERVICES

- Cessation Medication Use
 - Integrated Intervention: 94%
 - Usual Care: 64%
- Counseling Sessions Attended
 - Integrated Intervention: M=5.5
 - Usual Care: M=2.6
- At all assessments, the odds of abstinence were 5
 times greater for integrated care vs. usual care



INTEGRATING TOBACCO TREATMENT within PTSD SERVICES

- Multi-site RCT with 943 clients from 10 VA Medical Centers
- Integrated care (IC) vs. Usual care (UC)
- Cessation outcomes: 2-fold increase in quitting
 - 6-mo 7 day PPA: IC 16.5% vs. UC 7.2%
 - 18-mo 7 day PPA: IC 18.2% vs. UC 10.8%
- Strongest predictor of tx effect: # of counseling sessions received
- Quitting had no detriment on PTSD symptoms



SUMMARY: TOBACCO TREATMENT in PSYCHIATRIC PATIENTS

- In general, currently available interventions show effectiveness
- Wide range of abstinence rates, with unknown determinants
- Evidence of deleterious effect on psychiatric symptoms or recurrence is weak
- Integration into mental health treatment settings increases abstinence rates



TOBACCO CESSATION DURING ADDICTIONS TREATMENT or RECOVERY

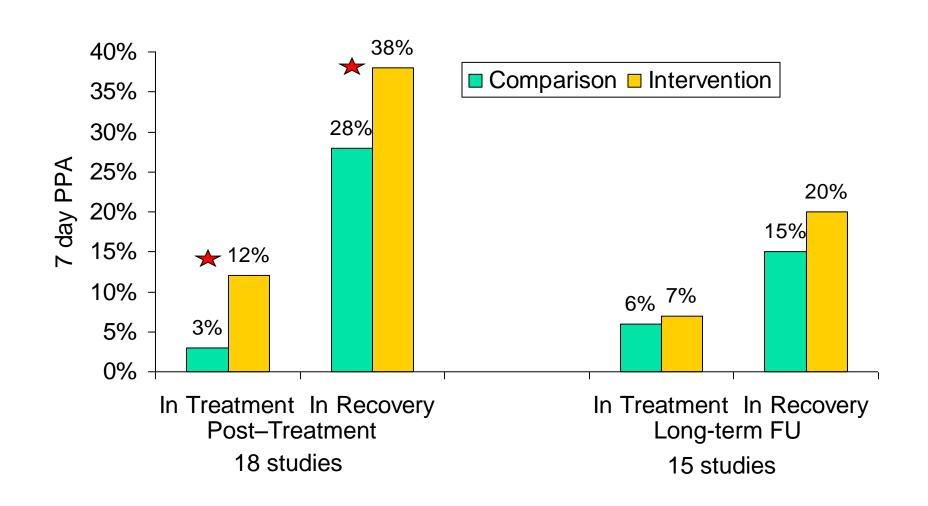
- Meta-analysis of 19 trials
 - 12 in treatment; 7 in recovery



- Findings: Tobacco Cessation
 - In Treatment Studies: Post treatment abstinence rates were intervention=12% vs. control=3%
 - In Recovery Studies: Post treatment abstinence rates were intervention=38% vs. control=22%
 - No significant effect for tobacco cessation at longterm follow-up (> 6 months)



OVERALL SMOKING CESSATION RATES





DOES ABSTINENCE from TOBACCO CAUSE RELAPSE to ALCOHOL and ILLICIT DRUGS ?

- At ≥ 6 months follow-up, tobacco treatment with individuals in addictions treatment was associated with a 25% increased abstinence from alcohol and illicit drugs (Prochaska et al., 2004).
- Caveat: One well done study (N=499) of concurrent versus delayed treatment reported (Joseph et al., 2004):
 - Comparable smoking abstinence rates at 18 months (12.4% versus 13.7%)
 - Lower 6-month prolonged alcohol abstinence rates among those offered concurrent compared to delayed tobacco cessation treatment; NS at 12 and 18-months



TOBACCO CESSATION DURING ADDICTIONS TREATMENT or RECOVERY

- Systematic review of 17 studies
- Smokers with current and past alcohol problems:
 - More nicotine dependent
 - Less likely to quit in their lifetime
 - As able to quit smoking as individuals with no alcohol problems

Hughes & Kalman (2006) Drug Alc Dep



SUMMARY: TOBACCO TREATMENT for SUBSTANCE ABUSING PATIENTS

- In general, currently available interventions show some effectiveness, at least for the shortterm
- Range of abstinence rates, with unknown determinants
- Weak evidence of deleterious effect on abstinence from illicit drugs and alcohol
- Disorder specific data may eventually allow better tailoring of treatments



PREVENTION

- Drug Abuse Treatment Settings
 - Prospective study, N=649
 - At 12-month follow-up, 13% of the 395 baseline smokers reported quitting smoking and 12% of the 254 baseline nonsmokers reported starting/relapsing to smoking



MAKE a COMMITMENT...

Address tobacco use with all patients.

At a minimum, commit to incorporating brief tobacco interventions as part of routine patient care:

Ask, Advise, and Refer.

Become an advocate for smoke-free hospitals and clinics, workplaces, and public places.



ACKNOWLEDGEMENTS

- Karen Hudmon, DrPH, RPh and Rx for Change
- Sharon Hall, PhD & UCSF Habit Abatement Clinic
- Grant funding:
 - California Tobacco Related Disease Research Program (#13KT-0152, #17RT-0077)
 - National Institute on Drug Abuse (#K23 DA018691, #P50 DA09253)
 - National Institute of Mental Health (#R01 MH083684)
 - American Cancer Society (IRG# AC-08-04)
 - Pfizer, Inc. Investigator Initiated Research Award



Contact Information:

Email: JProchaska@ucsf.edu

Ph: 415-476-7695

Website: rxforchange.ucsf.edu